HOME ORGANIZER™

HOME INVENTORY

INTRODUCTION

Thank you for purchasing **HOME INVENTORY.** This program is one of our titles in the **HOME ORGANIZER**™ series. This series was designed specifically for the Commodore 64 home computer. It is based on our professional database program called **The Consultant**™ (formerly Delphi's Oracle) which is one of the best selling database management systems for the Commodore 64.

We are sure you will find the program a useful application for your home computer. Now you can keep track of your expensive items around your home, office, or studio - great for insurance purposes.

SECTION 1 - PROGRAM LOADING

Place the master disk into the disk drive and type:

load"0:*",8,1

Press: **RETURN**

NOTE:
When loading the program disk, no external attachment that may use some of the computer's memory is allowed (I.e.: Cartridge program or :0-column attachment). If such a device is installed, the program will not load properly. Fully transparent interfaces, like a printer interface or a BusCard are allowed.

SECTION 2 - USING THE PROGRAM

The Home Organizer Series is completely menu driven. The Main menu should now be displayed on the screen. Once the HOME ORGANIZER PROGRAM is loaded into the computer it is no longer required in the disk drive. The program diskette should be removed for safe-keeping.

When using the HOME ORGANIZER PROGRAM you can always return to the main menu by holding down the **SHIFT** key and pressing: **F7** any time the cursor is flashing.

The screen colors may be adjusted as follows:

F1 - Set border color of screen.
F3 - Set background color of screen.
F5 - Set character color.

SECTION 3 - CREATING A DATA DISK

If you are using the program for the first time a data disk to contain your information must be created. CAUTION - CREATING A NEW DATA DISK WILL ERASE ALL PREVIOUS INFORMATION ON THE DISK. MAKE SURE A NEW DISK IS IN THE DISK DRIVE.

To create a new data disk **PRESS THE '6' KEY** and then follow the instructions on your monitor. The formatting of the disk will take about five minutes. The file created will allow 700 entries per disk of your inventory data. MAKE SURE TO LABEL THIS DISK AS YOUR DATA DISK.

REMEMBER THAT OPTION NUMBER '6' OF THE MAIN MENU (CREATING A FILE) IS ONLY USED WHEN A NEW DATA DISK IS REQUIRED.

SECTION 4 - UPDATE DATA FILE

The main menu is on the screen.

PRESS: **1**

The main menu clears and the different fields in the record are displayed as below.

```
                File Maintenance
          *** Inventory Data Record ***

Item Description/Name:
I                                    I

Serial No....I              I
Color........I              I
Purch.Price..I              I $
Curr.Value...I              I $
Insured for..I              I $
Location.....I                          I
Manufacturer.I                          I
Part of......I                          I

                    R E M A R K S:
-----------------------------------------
I                                       I
_________________________________________
Enter EXIT, ADD, or UPDATE
_________________________________________
```

At the bottom of the screen is the **prompt line.** In this instance the prompt line displays: 'Enter Exit, Add or Update'. The prompt line acts as a sub-menu to show you what is the next required step.

Section 4.1 - ADDING DATA

PRESS THE 'a' KEY.

The prompt line changes to display: 'Enter record data (<- key to finish)'. The cursor moves to the first field on the screen and is blinking, waiting for data entry.

NOTE: Pressing the RETURN or CRSR down key will move the cursor to the next field. Pressing the CRSR up key will move the cursor to the previous field. Pressing the HOME key will move the cursor to the topmost (first) field on the screen. Pressing the DEL & INST keys will delete or insert characters until the beginning of the field is reached.

Enter the following information into the appropriate field:

Field Name	Type
Item Description/Name	Commodore 64
Serial Number	006514
Color	beige

Note: As a convenience, you may wish to line up dollar amounts to the right side of the field. This will make your reports look even nicer and it is easy to do. Simply enter the amount, then move the cursor to the left of the field [SHIFT CRSR <-]. Now use the insert key [SHIFT INST] to move the amount to the right.

Purch.(ase) Price	895.00
Curr.(ent) Value	379.00
Insured for	1000.00
Location	computer room
Manufacturer	Commodore
Part of	computer system

```
                    ADD RECORD
        *** Inventory Data Record ***

Item Description/Name:
ICommodore 64                                  I

Serial No....I006514          I
Color.......Ibeige            I
Purch.Price..I          895.00I $
Curr.Value...I          379.00I $
Insured for..I         1000.00I $
Location.....Icomputer room                    I
Manufacturer.ICommodore                        I
Part of.....Icomputer system                   I
                  R E M A R K S:
-----------------------------------------------
I                                              I
_______________________________________________
Enter record data (<- key to finish)
_______________________________________________
```

When all data has been entered correctly **PRESS : <- KEY.** When this key is pressed the disk drive becomes active and the data for this record is written to the disk drive.

Let us add a few more names to our inventory list. We are still in the ADD mode and the prompt line displays: 'Add another record (y/n) ? y' with the cursor blinking over the default answer "y" - just **press: RETURN.** Continue on and add the following names into the inventory list.

Field Name	Type
Item Description/Name	Commodore 1541
Serial Number	078453
Color	Press:**UP-ARROW**

Note: Pressing the up-arrow key in the add mode will print data from the equivalent field of the previous record. In this example 'beige' should be printed in this field.

Purch.Price	399.95
Curr.Value	379.00
Insured for	500.00
Location	Press:**UP-ARROW**
Manufacturer	Press:**UP-ARROW**
Part of	Press:**UP-ARROW**

PRESS THE <- KEY TO ENTER THE DATA

Field Name	Type
Item Description/Name	1702 Monitor
Serial Number	069230
Color	Press:**UP-ARROW**
Purch.Price	379.00
Curr.Value	379.00
Insured for	500.00
Location	Press:**UP-ARROW**
Manufacturer	Press:**UP-ARROW** twice.

PRESS THE <- KEY TO ENTER THE DATA

Field Name	Type
Item Description/Name	MPS 801 Printer
Serial Number	023988
Color	Press:**UP-ARROW**
Purch.Price	289.00
Curr.Value	289.00
Insured for	400.00
Location	Press:**UP-ARROW**
Manufacturer	Press:**UP-ARROW** twice.

PRESS THE <- KEY TO ENTER THE DATA

Field Name	Type
Item Description/Name	Video Recorder
Serial Number	JVC-3748-03
Color	brown
Purch.Price	950.00
Curr.Value	750.00
Insured for	1000.00
Location	bedroom
Manufacturer	JVC

PRESS THE <- KEY TO ENTER THE DATA

Field Name	Type
Item Description/Name	Color TV
Serial Number	477499529
Color	Press:**UP-ARROW**
Purch.Price	895.00
Curr.Value	750.00
Insured for	1000.00
Location	Press:**UP-ARROW**
Manufacturer	Panasonic

PRESS THE <- KEY TO ENTER THE DATA

Field Name	Type
Item Description/Name	Microwave Oven
Serial Number	L06060806
Color	Press:**UP-ARROW**
Purch.Price	1500.00
Curr.Value	1500.00
Insured for	2000.00
Location	kitchen
Manufacturer	Panasonic

PRESS THE <- KEY TO ENTER THE DATA

Field Name	Type
Item Description/Name	Refrigerator
Serial Number	H.D. 00001
Color	white
Purch.Price	1495.00
Curr.Value	1000.00
Insured for	1800.00
Location	Press:**UP-ARROW**
Manufacturer	General Electric

PRESS THE <- KEY TO ENTER THE DATA

Field Name	Type
Item Description/Name	Ice Maker
Serial Number	J8127635
Color	brown
Purch.Price	300.00
Curr.Value	200.00
Insured for	400.00
Location	kitchen
Manufacturer	General Electric

PRESS THE <- KEY TO ENTER THE DATA

Now we have nine items entered into our inventory file. The prompt line displays: 'Add more records ? y' - Press 'n'. The prompt line returns to display: 'Enter Exit, Add or Update -'.

SECTION 4.2 - UPDATE DATA

PRESS the 'u' KEY.

The data clears from all the fields and the prompt line displays: 'Enter search data (press <- when done)'. The cursor is blinking in the first field.

```
          UPDATE RECORD
      *** Inventory Data Record ***

Item Description/Name:
I                                   I

Serial No....I                        I
Color.......I
Purch.Price..I                      I $
Curr.Value...I                      I $
Insured for..I                      I $
Location.....I                        I
Manufacturer.I                        I
Part of......I                        I

                  R E M A R K S:
----------------------------------------
I                                   I
----------------------------------------
Enter search data (press <- when done)
----------------------------------------
```

The cursor is blinking in the first field. Let us correct the amount paid for the Commodore 1541 Disk Drive. Type **com** in the first field and then press

<-. The disk drive becomes active and first record is displayed on the screen.

```
                    UPDATE RECORD
            *** Inventory Data Record ***

Item Description/Name:
ICommodore 64 Computer                    I

Serial No....I006514                        I
Color.......Ibeige          I
Purch.Price..I          895.00I $
Curr.Value...I          379.00I $
Insured for..I         1000.00I $
Location.....Icomputer room                 I
Manufacturer.ICommodore                     I
Part of......Icomputer system               I

                    R E M A R K S:
-------------------------------------
I                                           I
-------------------------------------------------------------
Change,Del,Next,Prev,Match,Rec.#,Exit?
-------------------------------------------------------------
```

Looking at the prompt line we have a number of options and the meaning of these are as follows:

1) Change - pressing 'c' allows you to make changes.
2) Del - pressing 'd' will delete the record.
3) Next - pressing 'n' will display the next record number.
4) Prev - pressing 'p' will display the previous record.
5) Match - pressing 'm' will display the next matching record based on the search criteria entered.
6) Rec.# - pressing 'r' will request a record # be entered and then display that record.
7) Exit - pressing 'e' will stop what you were doing and display the previous menu.

The above options will allow us to browse through our records. When the desired record is displayed on the screen we have the option of **changing** or **deleting** it. The Exit function will allow us to stop the function.

The record displayed is not the one we require. **Press: m** and the disk drive becomes active looking for the next record that starts with **'com'** in field one. The next record displayed is the disk drive record. **Press: c** so that corrections can be made. The cursor is blinking in field one. On data entry the amount paid was 499.95 and it was entered as 399.95. Move the cursor to the field labelled **Purch.Price** using the CRSR down key and type: **'499.95'**. When the change is entered press the '<-' key. The disk drive becomes active and the corrected record is written to the inventory list.

In the above example we demonstrated a simple string search i.e. find any record that starts with **com** in the first field. We will see that more advanced searches can be accomplished.

Press: e to exit the **Update Record** menu. **Press : e** to exit **File Maintenance.** Before the main menu appears the disk drive becomes active and the prompt line displays:

Scratching key-files
Please standby..writing file..

The HOME INVENTORY program keeps a special file, called a **key file,** on the disk. The program is now updating this file to reflect the changes you have made.

SECTION 5 - SEARCHING FOR RECORDS

We are in the main menu.

Press: 2

The inventory menu is displayed on the screen and the prompt line displays: 'Enter search data (press <- when done)'. The HOME INVENTORY program has more advanced search options than the simple string search we have seen previously. The search options available are as follows:

SECTION 5.1 - String Searches

The HOME INVENTORY program looks for records which have an exact match of a specific group of letters, numbers, or other characters in the field specified.

Let us search for all items in our list manufactured by Commodore.

Type: **com** - Remember to place the 'com' in the **Manufacturer** field.
PRESS: <-

At the top right hand corner of the screen is displayed R=0001. When names are entered into the HOME INVENTORY program a record number is arbitrarily assigned to each name.

```
                                                    R=0001
_____________________________________________________
          *** Inventory Data Record ***

Item Description/Name:
IComputer 64                                        I

Serial No....I006514                                I
Color.....Ibeige          I
Purch.Price..I          895.00I $
Curr.Value...I          379.00I $
Insured for..I         1000.00I $
Location.....Icomputer room                         I
Manufacturer.ICommodore                             I
Part of......Icomputer system                       I

                    R E M A R K S:
-----------------------------------------
I                                                   I
_____________________________________________________
EXIT,Next,Prev,Match or Rec # ?
_____________________________________________________
```

Let us carry on our search for all **com**'s

Press: **m**
The 'disk drive' record is the next one displayed. (R=0002)

Press: **m**
The '1702 Monitor' record is displayed. (R=0003)

Press: **m**
The 'MPS 801' record is displayed. (R=0004)

Press: **m**
The prompt at the bottom screen: 'end of file (press any key)' is displayed. Whenever the last

match in the file is reached this message is displayed. Pressing any key will return you to the main menu.

SECTION 5.2 - Wild Card Searches

A **wild card search** enables you to search for a string without specifying all the charaters in the string. For example, if you want to search for the next data record whose **color** has an **'e'** as the second character, you would describe the string by typing: **?e.** The question mark stands for any character. The **?** is called a **wild card.**

We are in the main menu.

press: **2**

Move to the **color** field and
Type: **?e**
Press: **<-**

The first record is displayed (R=0001).

Continue pressing: **m** and see all the records that meet this criteria.

SECTION 5.3 - Match anywhere search

This type of search will look for the occurance of the string anywhere in the field. Unlike the other searches, the **match anywhere** search will match the string in any position, not just at the beginning of the field.

Using the 'Match anywhere search' let us find any records that contain a **room** anywhere in field #7 (Location).

We are in the main menu.

Press: **2**
Move to **Location** field and
Press: **!**
Notice at the top of the screen an exclamation mark is printed. This is to remind you of the type of search you are doing.
Type: **room**

Press: <-

The first record is the Computer room.

Press: **m** and work thru the records. Notice that if an **room** is anywhere in the location then the record is matched.

SECTION 5.4 - Unequal Searches

This type of search looks for records containing data that is either greater than or less than some indicated value.

As an example, let us look for all records where the 1st digit of the **Serial No** is greater than 1. We are in the main menu.

Press: **2**
Move the cursor down to the **Serial No** field.
Press: **>**
Notice that a greater than charatcer is displayed at the top of the screen.
Type: **1**
Press: <-
The first match is the Video Recorder (R=0005).
Press: **m**
The next one is record #6 (Color TV).

Remember that unequal searches can be used on alphabetic characters as well as on numbers.

SECTION 5.5 - Any Match Searches

If you're browsing through your HOME INVENTORY file without any particular record in mind, or if you want to look at the entire file, you can use an **any match search.** To do this just type in an '*' in the first position of any field and then run the search. Each record will be displayed in the order in which it was entered. However, if the records have a **key field** associated with them, they will be displayed in sorted order.

SECTION 5.6 - Not Equal Searches

The **Not equal** search allows us to search for records which do not match our search criteria.
To specify a **Not equal** search, press: **RVS ON** (CTRL and 9 keys) and then enter the search string into the appropriate field.

SECTION 5.7 - Key Field Searches

The Description field is a **key-field** and it is automatically sorted when you exit from the **Update data file** option. When you do a search in a key field the matched records are displayed in a sorted order. Let us take a look at a few examples.

You are in the main menu.

Press: **2**
Move the cursor into the **Description** field.
Press: *****
Press: **<-**
Notice that record #3 is diplayed first and it is the 1702 Monitor.

Step thru the records using the **m** key and notice that the **description** of the record is higher in the alphabetical order.

In our discussion on searches we only used one search parameter per search. The search parameters can be composed of mutiple search criteria. As an example let us look for all the products built by Commodore whose color starts with the letter **b.**

We are in the main menu.

Press: **2**
Type: **b** into field #3 (**Color**)
Move the cursor to the **Manufacturer** field.
Type: **commodore**
Press: **<-**

Step thru the file using the 'm' key and see for yourself that the desired search in this example can be accomplished.

SECTION 6 - SETUP PRINTER

This option is used to turn the printer on and off. When HOME INVENTORY is first run the printer is automatically turned off.

We are in the main menu.

Press: **3**

The following questions will be asked.

Single or Double spacing ?
The default answer is **s.** If you require single spacing on the printer then just press: **RETURN.** If double spacing is required then type: **d** and then press: **RETURN.**

Output device number ?
The printer device is number 4. If you require output to the printer then just press: **RETURN.** If the device you want to output to is other than 4 then just enter in the device number and press: **RETURN.**
If you want to output the data to a sequential file on the disk then type: **8** and press: **RETURN.** If you do this a file name is requested. Enter a file name and then press: **RETURN.** This feature allows data to be transferred from the HOME INVENTORY program to the PaperClip Word Processor.

Output to Screen or Printer?
The default answer is the screen. If you require output to the screen then press: **RETURN.** To output reports to the printer then type: **p** and then press: **RETURN.**
If output to the screen is selected then the program will return to the main menu. If the printer is selected then the following questions will be asked:

Lines/page ?
The default answer is 55. If you want to print 55 lines per page then press: **RETURN.**

Ascii or Cbm code ?
If you are using a Commodore printer then press: **c** if not then press **a.**

The program returns to the main menu.

SECTION 7 - PRINT REPORTS

The HOME INV program can generate two different reports. To get to the report generator you select option 4 from the main menu. The two report formats are as follows:

SECTION 7.1 - INSURANCE LISTING

The report looks as follows:

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Description/Name	Serial No.	Purch.($)	Ins.($)
1702 Monitor	069230	379.00	500.00
Color TV	477499529	895.00	1000.00
Commodore 64	006514	895.00	1000.00
Commodore 1541	078453	499.00	1000.00
Ice maker	J8127635	300.00	400.00
Microwave Oven	L06060806	1500.00	2000.00
MPS 801 Printer	023988	289.00	400.00
Refrigerator	H.D.00001	1495.00	1800.00
Video Recorder	JVC-3748-03	950.00	1000.00
Total number = 9 items			
Total Value =		7202.00	9100.00

This report was generated by selecting (OPTION #4 - Report #1) - **Description/Name.** Again as the sort critera an asterisk was placed in the first field.

SECTION 7.2 - ALL FIELDS LISTING

This is report #2 of option #4. This report prints all the fields of each record, each on a separate line. This report is useful if you want to output all the information from each record to a sequential file on the disk drive.

Section 7.3 - REPORT OVERVIEW

Although the HOME INV program has only two fixed report formats the information generated can vary depending on the search critera chosen. We will see in the next section that by using the sorts option very specialized **sorted** reports can be generated using one of the above formats. The entire screen can be output to the printer by pressing: '**"**' when the cursor flashes in a field.

SECTION 8.0 - SORT DATA FILE

Previously it was discussed that the **description** field is automatically maintained in a sorted order by the use of a **key-file.** It was also demonstrated that a sorted report based on the **description** could be generated. The **Sort data file** function lets you create a key field for any field and thus allows better flexibility in the type of sorted reports that can be generated. Let us take a look at a few examples.

Example #1

Let us generate a report with all the Insurance prices in ascending order. For this type of report we require a key-field for field #6 (**Ins.prc.**).

We are in the main menu.

Press: **5**

The main menu is replaced by a new screen with all the fields in the record displayed -- each associated with its field number. The prompt line at the bottom of the screen displays: 'Enter field to sort - 1'.

Press: **6 RETURN**

Prompt line displays: 'Enter sort depth (15 max.) - 5'

Press: **RETURN**

At this point we have selected the sort depth to be 5. This indicates that only five characters of field #1 will be compared when sorting.

Prompt line displays: 'Subsort req'd ? n'

Press: **RETURN**

Subsorts will be discussed in the next example. In this example it is not required. By pressing return to the prompt the default answer of **no** is accepted.

The disk drive turns on and the key-file is created. What happens is that the first five characters of field number one in each record is read into the computer memory, sorted, and then the key-file is written to the disk. When this is complete the program returns to the main menu.

Select the **Insurance listing** report and place an asterisk in the **Insured Price** field. Generate the Report and see for yourself that the insurance prices are displayed in ascending order.

Example #2

Let us generate another insurance report with all the Insurance prices in ascending order. In addition to this if the amount matches we want those records to be also sorted by serial number.

We are at the Main menu.

Press: **5**

Now specify field #6 (**Ins.prc.**). When a subsort is prompted enter: **y**. Press: **2 RETURN** (Serial number) when asked for the field number. Specify **4 RETURN** when the sort depth is requested to cover the first four charcaters of the field. Press: **RETURN** when asked if there are more subfields. You have told the program to use field #2 as sort criteria if the field #6 is the same.

Now generate the report as before. Note that the data is now sorted by the insurance price and for identical prices the serial numbers follow the proper order.

Up to ten levels of subsorting may be specified at any one time.

SECTION 9 - Complex Functions

Whenever a record has to be located, any or all search modes may be combined. If, for instance, you want to locate all the items with a specified purchase price **and** a specified insurance price, do as follows:

We are in the main menu.

Press: **2**

The prompt line displays: 'Enter search data (press <- when done)'. Move the cursor to the **Purchase Price** field and enter: **! 895.00.** Then move to the **Insured for** field and enter: **! 1000.00.** Because these fields are numeric and were right-justified when you entered them, we used the **Match anywhere search** (**!**). This saves you the bother of right-justifying the search specification.

Now Press: <- to start the search.

The search should produce the Commodore 64 data item. When the **m** key is pressed, the Color TV item should be displayed. This capability becomes more valuable with your records of, since we had only two matching records where you might have many.

SECTION 9.1 - Sequential files

When the **Printer Device** question during **Printer Setup** is asked, answer with the disk unit number (usually 8 or 9) instead of the default number of 4. A filename will be requested and all data is sent to this file instead of the printer. Select report option #3 to transfer all fields of the data to the sequential file. This feature allows data to be sent to PaperClip or any other word processor. When transferring data to the PaperClip word processor, **Cbm** mode must be specified during printer setup and spaces should be suppressed to save room on the disk.

With a dual disk drive, drive 1 may be specified as part of the filename (I.e.: '1:name'). With 2 disk drives unit 9 may be specified as the output device.

SECTION 9.2 - Numeric Fields

When searching in a numeric field (all dollar amount fields), two different actions take place. If the search data is entered in only one field, a position dependent search is performed. If, however, a prior search string was supplied on the screen, then a true numeric comparison is done. To demonstrate this, let us try the two kinds of searches.

Enter: **<3** into the **Purch Price** field and press <- key.

The record located will show: '895.00' in the purch. price field which is obviously greater than 3. The reason for this apparent error is that a position dependent search was done. I.e.: the first digit is already less than 3, so the search criteria is met. To demonstrate a true numeric search:

Enter: ***** in **Serial No** field and **>399** into **Purch.price** field.
Press: <- key.

The records now located will correctly match the intended search criteria. The first one being the 'Color TV' record. When the **m** key is pressed, the second record, the Commodore 64, will be displayed.

You might say: 'why so complicated' until you try to locate records where only cetain digits of the amount are known and a positional search comes in very handy.

SECTION 10 - THE FIELD LIST

The following fields are defined by the program. When a numeric attribute is assigned to the field, no alphabetic characters will be accepted as data in this field. An alpha attributed field will not accept numbers or special symbols.

Field	Description	Length	Attribute
1	Description	30	key
2	Serial No.	20	none
3	Color	10	none
4	Purchase price	10	numeric
5	Current value	10	numeric
6	Insured value	10	numeric
7	Location	24	none
8	Manufacturer	24	none
9	Part of	24	none
10	Remarks	38	none

The list of fields is displayed on the screen when the **SORT** option is invoked. The length and attributes are not listed.

SECTION 11 - THE KEYBOARD

The following is a list of special keys used throughout the program. When the cursor points to a particular field, the search modifier keys for that field are displayed at the top of the screen.

Key	Meaning
<--	Execute current function
*	Wild search string (any match)
!	Match in any position of the field
RVS	Not equal search (CTRL 9 key)
>	Greater than search
<	Less than search
?	Wild card (single character) (**Not** to be used in key-field)
F1	Set border color
F3	Set background color
F5	Set character color
F8	Escape to main menu
1	Set previous data (add mode)
"	Output screen to printer (cursor must be flashing in field)

In addition all normal cursor functions operate as usual. CRSR up will move to the previous field, CRSR down or RETURN will move to the next field, INST moves characters to the right (up to the limit of the field) and DEL moves characters to the left deleting the previous characters until the start of the field where the characters under the cursor will be deleted.

SECTION 12 - SUPPORT PROGRAMS

12.1. Backup 64.

This is a stand-alone program included on the master disk to produce backup copies of your data disk on a single disk drive. Due to the fragile physical nature of diskettes, a backup copy of your valuable data disks should always be made after massive updates to the file.

The master program diskette cannot be copied using this or any other program since the disk is protected from illegal copying. If the diskette should be damaged, a new one may be obtained by returning the master program disk with a $10.00 fee.

12.2. File Fix.

This program included on your master disk will correct occasional errors made by the disk drive. When a data file becomes contaminated, the addition or deletion of records becomes impossible. This is indicated by the message: 'Fatal file error'.

When this message appears during add mode, exit from the ORGANIZER program and run the 'File Fix' program with your data disk in the drive.

To run the program, type: 'load"file fix",8' and press: 'return' when the READY message appears type: 'run'. The time required to fix the data file will depend on the number of records in your data file.